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agent and "industrial controller" and device

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Multi-language generation of control program for an industrial controller

NW McGrath, LC McKinnon, JC Pattee, GC ... - US Patent 5,504,902, 1996 - Google Patents
 ... Examiner—John Q. Chavis Attorney, **Agent**, or Firm ... control program executable by an
industrial controller, wherein the ... displayed on a display **device** along with ...

[Cited by 18](#) - [Related articles](#) - [All 4 versions](#)**Industrial controller with highly distributed processing**

DS Pieronek, JJ Hodorowski - US Patent 5,452,201, 1995 - Google Patents
 ... Examiner—James P. Trammell Attorney, **Agent**, or Firm ... from the controller to operate
devices on the ... for most control inputs to the **industrial controller** may be ...

[Cited by 18](#) - [Related articles](#) - [All 2 versions](#)**Industrial controller with decompilable user program**

NW Knutsen - US Patent 5,005,152, 1991 - Google Patents
 ... Shaw Assistant Examiner—PV Kulik Attorney, **Agent**, or Firm ... on floppy disk or mag-
INDUSTRIAL CONTROLLER WITH netic ... which of the many ladder ing **devices** on the ...

[Cited by 15](#) - [Related articles](#) - [All 2 versions](#)**Object-oriented programmable industrial controller with distributed interface architecture**

KC Crater, DL Pierson, WO Schley - US Patent 6,201,996, 2001 - Google Patents
 ... 13,2001 (54) OBJECT-ORIENTED PROGRAMMABLE **INDUSTRIAL CONTROLLER** WITH DISTRIBUTED
INTERFACE ... Grant Assistant Examiner—Kideest Bahta (74) Attorney, **Agent**, or Firm ...

[Cited by 17](#) - [Related articles](#) - [All 4 versions](#)**Industrial control system device**

M Kosem, AJ Cachat, TD Toth - US Patent 5,068,778, 1991 - Google Patents
 ... Assistant Examiner—Jim Trammell Attorney, **Agent**, or Firm ... to a control sys- tem **device**
 that can ... comprised of a multi-function **industrial controller** capable of ...

[Cited by 12](#) - [Related articles](#) - [All 2 versions](#)**Method and systems for use with an industrial controller**

KG Maxwell, MS McGrath, JA Millinton... - US Patent 5,508,909, 1996 - Google Patents
 ... Primary Examiner—Joseph Ruggiero Attorney, **Agent**, or Firm ... program executable by an
industrial controller, wherein a ... program is displayed on a display **device**. ...

[Cited by 7](#) - [Related articles](#) - [All 4 versions](#)**Using radio frequency identification in agent-based control systems for industrial ...**

P Vrba, F Macúrek, V Mařík - Engineering Applications of Artificial Intelligence, 2008 - Elsevier
 ... in order to ensure line-of-sight between the reader **device** and the ... Additionally,
 with a long history of researching into the **agent**-based manufacturing control ...

[Cited by 8](#) - [Related articles](#) - [All 2 versions](#)

Interface between **industrial controller** components using common memory

DA DiCarlo, WE Floro, M Keith, JJ Baier, JH ... - US Patent 5,416,908, 1995 - Google Patents
... 16, 1995 [54] INTERFACE BETWEEN **INDUSTRIAL CONTROLLER** COMPONENTS USING ... Examiner—Viet Vu Attorney, **Agent**, or Firm ... condition of selected sensing **devices** on the ...

[Cited by 8](#) - [Related articles](#) - [All 2 versions](#)

Adaptive alarm controller changes multiple inputs to **industrial controller** in order for state ...

OJ Struger, EJ Klimas - US Patent 5,089,984, 1992 - Google Patents
... Assistant Examiner—Mehmet Geckil Attorney, **Agent**, or Firm ... and outputs to and from the **industrial controller**. ... 20 that services the respective output **device**. ...

[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

Programming apparatus for an **industrial controller** using two-dimensional graphic behavior ...

MJ Schwenke - US Patent 5,321,603, 1994 - Google Patents
... 54] PROGRAMMING APPARATUS FOR AN **INDUSTRIAL CONTROLLER** USING TWO ... Assistant Examiner—Jim Trammell Attorney, **Agent**, or Firm ... a manual data entry **device** and a ...

[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

Industrial controller with variable I/O update rate

DJ Dombrosky, KR Harris - US Patent 5,099,449, 1992 - Google Patents
... Assistant Examiner—Larry Donaghue Attorney, **Agent**, or Firm ... monitoring the operation of the **industrial controller** and for ... a dc input or output **device**, or as an ...

[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

Industrial controller permitting removal and insertion of circuit cards while under power

RE Schultz, WE Floro, O Schmidt - US Patent 5,983,298, 1999 - Google Patents
... Examiner—Rupal D. Dharma Attorney, **Agent**, or Firm ... between the card and the **industrial controller** has stabilized ... diodes on other memory type **devices** attached to ...

[Cited by 7](#) - [Related articles](#) - [All 2 versions](#)

Protective case for an **industrial controller**

A Le Boennec, R Jean, B Dalban - US Patent 5,202,815, 1993 - Google Patents
... 54] PROTECTIVE CASE FOR AN **INDUSTRIAL CONTROLLER** [75] Inventors ... Examiner—Gerald P. Tolin Attorney, **Agent**, or Firm ... case with an electronic **device**, including an ...

[Cited by 3](#) - [Related articles](#) - [All 3 versions](#)

Device for aiding maintenance of an electromechanical installation having automatic ...

JL Chanvin, A Cote, G Menou - US Patent 4,847,894, 1989 - Google Patents
... Examiner—Keith E. George Attorney, **Agent**, or Firm ... installation having a programmable **industrial controller**; FIG. 4 is a block diagram of a **device** according to ...

[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

Industrial controller having redundancy and using connected messaging and connection ...

MA Flood, ME Taylor - US Patent 5,963,448, 1999 - Google Patents
... 5,1999 [54] **INDUSTRIAL CONTROLLER** HAVING REDUNDANCY AND USING CONNECTED MESSAGING AND ... Meng-Ai T. An Assistant Examiner—John Ciccozzi Attorney, **Agent**, or Firm ...

[Cited by 8](#) - [Related articles](#) - [All 2 versions](#)

Start-up pulse suppression circuit for industrial controller output

DJ Bolda, JC Clemente, MA Feavel, AG Gibart ... - US Patent 5,243,232, 1993 - Google Patents
... Examiner—Terry D. Cunningham Attorney, Agent, or Firm ... supply 24, associated with
the controlled device 22 and ... the power supply of the industrial controller 10 ...
[Cited by 4](#) - [Related articles](#) - [All 2 versions](#)

Industrial controller with flexible data structures

MS Khan, DB Sumerauer ... - US Patent 6,088,624, 2000 - Google Patents
... Grant Assistant Examiner—McDieunal Marc Attorney, Agent, or Firm ... ABSTRACT An improvement
in an industrial controller having a ... with each I/O device to define ...
[Cited by 3](#) - [Related articles](#) - [All 2 versions](#)

Enabling federated control by developing a distributed control application platform

AJR Aendenroemer, D ZhongQiang, H Hao, Q ... - ... Conference on Industrial Informatics, 2003. INDIN ..., 2003 -
ieeexplore.ieee.org
... which are the active entities, actors, agents etc ... the DCAP platform supports multiple
devices over multiple ... For example, for an industrial controller (where the ...
[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

Industrial controller decompiler accommodating an expandable instruction set

AS Ansari, MS Khan, JW Brooks - US Patent 5,881,290, 1999 - Google Patents
... Assistant Examiner—Tuan Q. Dam Attorney, Agent, or Firm ... that may be used to program
the industrial controller. ... program 50 for a particular device or process. ...
[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

Industrial controller permitting program editing during program execution

DA Johnston, CM Rischar, RE Schultz, O ... - US Patent 5,781,776, 1998 - Google Patents
... 14, 1998 [54] INDUSTRIAL CONTROLLER PERMITTING PROGRAM EDITING DURING PROGRAM EXECUTION
[75 ... P. Trammell Assistant Examiner—Kakali Chaki Attomev, Agent, or Finn ...
[Cited by 7](#) - [Related articles](#) - [All 2 versions](#)

The structured design of an industrial robot controller

G Ferretti, G Magnani, P Putz, P Rocco - Control Engineering Practice, 1996 - Elsevier
... The design of a new industrial controller is tackled according ... defined by the European
Space Agency (ESA) for ... SDP), and process, or device, and controloriented ...
[Cited by 8](#) - [Related articles](#) - [BL Direct](#) - [All 2 versions](#)

Industrial controller with display of rung execution

RE Schultz, CM Rischar, DR Rohn - US Patent 5,812,133, 1998 - Google Patents
... Examiner—Paul A. Bell Attorney, Agent, or Firm ... the present invention provides an
industrial controller having an ... and a user input device identifies at least ...
[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

Layered supervisory control architecture for reconfigurable automation

BL Huff, CR Edwards - Production Planning & Control, 1999 - informaworld.com
... A device control agent (DCA) provides the interface between ... the potential behaviour
or functionality of the device. ... In order for an industrial controller to be ...
[Cited by 5](#) - [Related articles](#) - [BL Direct](#) - [All 2 versions](#)

Adaptive controller in a process control system and a method therefor

M Sklaroff - US Patent 5,170,341, 1992 - Google Patents

... Examiner—Thomas E. Brown Attorney, **Agent**, or Firm ... signal inputted to the difference device initiates an ... Sheets SETPOINT (SP) 20 - **INDUSTRIAL CONTROLLER** Co PV ...

Cited by 5 - Related articles - All 6 versions

Redundant industrial controller storing module and chassis level redundancy status

MA Flood - US Patent 5,997,166, 1999 - Google Patents

... Assistant Examiner—Ramesh Patel Attorney, **Agent**, or Firm ... include start up of the industrial controller, removal or ... A device object 92 also exists within each ...

Cited by 5 - Related articles - All 2 versions

Industrial controller card rack with heat transfer across card edges

JC Clemente, B Fleischman, J Kitscha, P ... - US Patent 5,436,794, 1995 - Google Patents

... Examiner—Gregory D. Thompson Attorney, **Agent**, or Firm ... exploded cutaway view of an industrial controller showing a ... between the heat dissipating devices and the ...

Cited by 5 - Related articles - All 2 versions

Bar chart editor for industrial controller

MJ Schwenke, JA Sinclair - US Patent 5,940,293, 1999 - Google Patents

... 17,1999 [54] BAR CHART EDITOR FOR **INDUSTRIAL CONTROLLER** [75] Inventors: Marvin ... William Grant Assistant Examiner—Carolyn T Baumgardner Attorney, **Agent**, or Firm ...

Cited by 4 - Related articles - All 2 versions

Industrial controller programming method using external connection database

MW Schmidt - US Patent 5,564,049, 1996 - Google Patents

... R. Lintz Attorney, **Agent**, or Firm—Keith M. Baxter; John M. Miller; John J. Horn [57] ABSTRACT Subprograms together making up an industrial controller program ...

Cited by 4 - Related articles - All 2 versions

DC input circuit with controlled leakage current

TJ Murphy, TA Weber - US Patent 5,111,070, 1992 - Google Patents

... R. LaRoche Assistant Examiner—Tan Dinh Attorney, **Agent**, or Firm ... curren(flow into the DC input device into the input of the industrial controller

Cited by 4 - Related articles - All 2 versions

Industrial controller compiler with expandable instruction set

JW Brooks, RR Husted, CM Rischar, AS ... - US Patent 5,819,097, 1998 - Google Patents

... Examiner—Tuan Q. Dam Attorney, **Agent**, or Firm ... may be used to program the industrial controller, the new ... a control program for a particular device or process. ...

Cited by 3 - Related articles - All 2 versions

Device for method for manipulating a part

CR Wojcienchowski, DS Steele, HJ Scudder ... - US Patent 4,802,195, 1989 - Google Patents

... Examiner—David P. Porta Attorney, **Agent**, or Firm ... programmable controller 20, an industrial controller 21, a ... that is contemplated that the device and methods ...

Cited by 4 - Related articles - All 5 versions

Serial data isolator industrial control system providing intrinsically safe operation

U Behrens, MW Kessler, RD Slater, RE ... - US Patent 6,037,857, 2000 - Google Patents
... Donnie L. Crosland Attorney, Agent, or Firm ... present invention provides an industrial controller reading inputs from an industrial device and providing ...

Cited by 3 - Related articles - All 4 versions

Template language for industrial controller programming

MJ Schwenke, JA Sinclair, RJ Staron - US Patent 6,553,268, 2003 - Google Patents
... 22,2003 (54) TEMPLATE LANGUAGE FOR **INDUSTRIAL CONTROLLER** PROGRAMMING (75) Inventors ...
by examiner Primary Examiner—Ramesh Patel (74) Attorney, Agent, or Firm ...

Cited by 3 - Related articles - All 4 versions

High reliability industrial controller using tandem independent programmable gate-arrays

DA Vasko - US Patent 6,463,339, 2002 - Google Patents
... Examiner—Ramesh Patel (74) Attorney, Agent, or Firm ... according to programmable memory
industrial controller that has a ... and reference must be device complexity. ...

Cited by 3 - Related articles - All 2 versions

Axis editor for industrial controller programming

MJ Schwenke, JA Sinclair... - US Patent 6,076,020, 2000 - Google Patents
... Examiner—William Grant Assistant Examiner—Ivan Calcano Attorney, Agent, or
Firm—RA ... an axis behavior profile that represents input devices, output devices ...

Cited by 2 - Related articles - All 2 versions

Method of programming industrial controllers with highly distributed processing

J Hodorowski - US Patent 5,530,643, 1996 - Google Patents
... Assistant Examiner—Steven R. Garland Attorney, Agent, or Firm—Keith M. Baxter, John
M. Miller ... 7 17 29 ,,,,, **DEVICE DATA PB 109 PRS 109 < DEVICE A PB 102 PB ...**

Cited by 32 - Related articles - All 2 versions

Industrial controller input/output card providing reflex response

E Dummermuth... - US Patent 6,073,053, 2000 - Google Patents
... Assistant Examiner—Zoila Cabrera Attorney, Agent, or Firm ... Clearly the device is not
limited to the ... I claim: 1. An industrial controller producing electrical ...

Cited by 2 - Related articles - All 2 versions

Time synchronization system for industrial control network using global reference pulses

LW Esker - US Patent 6,535,926, 2003 - Google Patents
... Examiner—Saleh Najjar (74) Attorney, Agent, or Firm ... a master clock in a first industrial
control device. ... transmitted by the first industrial controller as a ...

Cited by 2 - Related articles - All 2 versions

Network interface for industrial controller providing application programmer interface

S Nair, MJ Gilson - US Patent 6,675,226, 2004 - Google Patents
... Phuong N Hoang (74) Attorney, Agent, or Firm ... networks without requiring rewriting
of industrial controller software. ... US 6,675,226 BI device on at least one ...

Cited by 1 - Related articles - All 2 versions

Interface for industrial controller network card

KE Neet, J Bradford, R Lantzy, ME Griffin - US Patent 6,412,032, 2002 - Google Patents
... Examiner—Harold Kim (74) Attorney, Agent, or Firm ... used as an 60 interface between
an industrial controller and a ... The reading device copies the contents of the ...
[Cited by 1](#) - [Related articles](#) - [All 2 versions](#)

Safety network for industrial controller allowing initialization on standard networks

KW Vandesteeg, DA Vasko, JA Lenner, KH ... - US Patent 6,701,198, 2004 - Google Patents
... Douglas M. Shute (74) Attorney, Agent, or Firm ... that is compatible with conventional
industrial controller networks and ... giving each communi- cating device a way ...
[Cited by 1](#) - [Related articles](#) - [All 2 versions](#)

Safety network for industrial controller having reduced bandwidth requirements

JA Lenner, DA Vasko, KW Vandesteeg, KH ... - US Patent 6,721,900, 2004 - Google Patents
... Examiner—Nadeem Iqbal (74) Attorney, Agent, or Firm ... BI SAFETY NETWORK FOR INDUSTRIAL
CONTROLLER HAVING REDUCED ... appropriate for use in devices intended to ...
[Cited by 1](#) - [Related articles](#) - [All 6 versions](#)

Parallel process controller

RE Morley - US Patent 4,648,064, 1987 - Google Patents
... et al 364/200 3,997,879 12/1976 Markley et al 364/900 4,015,243 3/1977 Kurpanek
et al 364/200 Primary Examiner—Eddie P. Chan Attorney, Agent, or Firm ...
[Cited by 15](#) - [Related articles](#) - [All 3 versions](#)

Industrial controller and network card with buffer negotiation

KE Neet - US Patent 6,463,338, 2002 - Google Patents
... Primary Examiner—Ramesh Patel (74) Attorney, Agent, or Firm ... network 16 may connect
to the industrial controller 12 via ... for a processor or other device to poll ...
[Cited by 1](#) - [Related articles](#) - [All 2 versions](#)

Input/output module having a combination input/output point

DR Janke, RR Sabroff... - US Patent 5,440,695, 1995 - Google Patents
... Examiner—Jonathan Hall Backenstose Attorney, Agent, or Firm ... use with a microprocessor
based industrial controller. input device, an output point adapted for ...
[Cited by 3](#) - [Related articles](#) - [All 6 versions](#)

Walk-through human/machine interface for industrial control

JR Engdahl... - US Patent 6,282,455, 2001 - Google Patents
... (74) Attorney, Agent, or Firm ... or outputs from the controller to operate devices on
the ... Inputs to the industrial controller may be discrete binary signals, such ...
[Cited by 1](#) - [Related articles](#) - [All 2 versions](#)

Apparatus and method for fast FET switching in a digital output device

GD Maskovyak, NV Ivanov - US Patent 6,555,935, 2003 - Google Patents
... 74) Attorney, Agent, or Firm—Himanshu S. Amin; Alexander M. Gerasimow; William R.
Walbrun (57) ABSTRACT An industrial control output device is provided which ...
[Cited by 1](#) - [Related articles](#) - [All 2 versions](#)

Plug-and-play interface circuit with visual display

LP Chung - US Patent 6,415,337, 2002 - Google Patents

... Sumati Lefkowitz (74) Attorney, **Agent**, or Firm ... port information of each peripheral **device** so that the ... extended to for example **industrial controller** that adapts ...

Cited by 1 - Related articles - All 2 versions

Optimized non-linear effect tapered optical fiber interferometer/switch device

P Dumais, S Lacroix, F Gonthier, RJ Black, J ... - US Patent 5,479,546, 1995 - Google Patents

... Examiner—Brian Healy Attorney, **Agent**, or Firm ... OPTICAL FIBER INTERFEROMETER/SWITCH **DEVICE** BACKGROUND OF ... typically a pro- grammable **industrial controller** with a ...

Cited by 5 - Related articles - All 2 versions

Offline micropayments without trusted hardware- •psu.edu (PDF)

M Blaze, J Ioannidis, AD Keromytis - Lecture Notes in Computer Science, 2002 - Springer

... The **users** (Payers and Merchants) are assumed to possess some **device** that can perform ... note that these do affect the risk decisions made by the **agents** and thus ...

Cited by 51 - Related articles - BL Direct - All 11 versions

Diagnostic aid for industrial controller using multi-tasking architecture

D Johnston, CM Rischar, J McDonel - US Patent 5,844,795, 1998 - Google Patents

... Ramesh Patel Attorney, **Agent**, or Firm—Keith M. Baxter; John M. Miller; John J. Horn [57] ABSTRACT A task executed on a multi-tasking **industrial controller** is ...

Cited by 2 - Related articles - All 2 versions

Implementation of sensor-based control algorithms in an industrial robot controller

C Carozzi, G Magnani, S Nicolodi - Control Engineering Practice, 1995 - Elsevier

... Nodes 10 and 9 perform Device (robot) and Process ... The C3G9000, a stateofheart **industrial controller** manufactured by ... at the European Space Agency Research and ...

Cited by 1 - Related articles - All 3 versions

A Real-Time Interface for Agent-Based Control

OJL Orozco, JLM Lastra - ieeexplore.ieee.org

... JADE-LEAP is an **agent** platform for constrained **devices** which was implemented in the Pointe Controller in a split- container configuration. ...

Controller with agent functionality

FP Maturana, KH Hall, RJ Staron, P Slechts, ... - US Patent App. 10/808,772, 2004 - Google Patents

... invention relates to a configuration **device** for enabling an **industrial controller** to Page 13. US 2004/0268186 A1 Dec. 30, 2004 operate as an **agent** that governs ...

Related articles - All 4 versions

Industrial controller for machine tools, robots and/or production machines

R Barth - US Patent 7,206,834, 2007 - Google Patents

... Examiner—Jeffrey Pwu (74) Attorney, **Agent**, or Firm ... US 7,206,834 B1 1 **INDUSTRIAL CONTROLLER** FOR MACHINE TOOLS ... the numerical controller's **display device** can show ...

Related articles - All 2 versions

... controller having data table interface between agent-type programming and non-agent- ...

FP Maturana, KH Hall, RJ Staron, P Slechts, V ... - US Patent App. 10/808,680, 2004 - Google Patents
... 16, 2002 and entitled "Agent-Based Active Diagnostics ... simple and requires programming
only a single device. ... a process with an industrial controller is the cost ...
[All 4 versions](#)

Industrial controller based on distributed technology objects

W Horn, J Birzer, T Heber, R Kram, M Kiesel - US Patent 7,561,929, 2009 - freepatentsonline.com
... Primary Examiner: Barnes Bullock, Crystal J. Attorney, Agent or Firm: Weingaertner,
Scott T. King & ... An industrial controller may be a separate device or it ...

... and methodology providing flexible and distributed processing in an industrial controller ...

DA Vasko, JJ Baier, RA Morse, BA Batke, J ... - US Patent 7,058,712, 2006 - Google Patents
... Assistant Examiner—Kenny Lin (74) Attorney, Agent, or Firm ... O table to control a
device 40 such ... Various control modules of the industrial controller may be ...
[All 4 versions](#)

... providing open interface and distributed processing in an industrial controller ...

JJ Baier, DM Callaghan - US Patent 7,151,966, 2006 - Google Patents
... eom/pub/a/ws/2001/04/04/webservices/in- dex.html.* (Continued) Primary
Examiner—Leo Picard Assistant Examiner—Charles Kasenge (74) Attorney, Agent, or ...
[Related articles - All 2 versions](#)

Inductive probe controller/conductive probe emulator

SA Walker, P It - US Patent 7,499,810, 2009 - freepatentsonline.com
... is usable with any industrial controller that uses a ... an improved hardness ion complexing
agent, November, 1990, ... 5722441, Electronic device process apparatus, March ...

Network independent safety protocol for industrial controller

KW Vandesteeg, DA Vasko, JA Lenner, KH ... - US Patent 6,891,850, 2005 - Google Patents
... Examiner—Saba Tsegaye (74) Attorney, Agent, or Firm ... At the industrial controller
12 the signals 18 may ... motor, enunciator, lamp or other device implementing a ...
[Related articles - All 2 versions](#)

System and method for interfacing multi-agent system

P Tichy, FP Maturana, KH Hall, RJ Staron, P ... - US Patent App. 10/814,549, 2004 - Google Patents
... 16, 2002 and entitled "Agent-Based Active ... that employ multiple, distinct control
devices that are ... Generally, an industrial controller is a specialized computer ...
[Related articles - All 4 versions](#)

Integrated multi-agent system employing agents of different types

FP Maturana, RJ Staron, FM Discenzo, KH Hall ... - US Patent App. 10/948,391, 2004 - Google Patents
... 16, 2002 and entitled "Agent-Based Active Diagnostics ... simple and requires programming
only a single device. ... pro- cess (eg, on an industrial controller) is the ...
[All 2 versions](#)

Application and service management for industrial control devices

DM Callaghan, BA Batke... - US Patent App. 11/764,702, 2007 - Google Patents

... ods include interfacing control device information with ... a control system, an industrial controller, a module ... an application, an intelligent agent, autonomous I/O ...

Related articles - All 4 versions

Method for licensing software

J Birzer, M Danz, A Hartinger, M Kiesel - US Patent App. 10/292,889, 2002 - Google Patents

... can be implemented as a mobile agent, which allows ... link or the Internet to the industrial controller/control system ... a single point and/or a single device or at ...

All 2 versions

Industrial Components, MU, PIBOC Controller Series to Be Incorporated into Industrial ...

T SANO, T KATSUMATA, H YAMAKAWA, Y ... - Meiden Jiho, 2005 - sciencelinks.jp

... the performance of PC, application of PC for industrial controller is becoming ... are expected to be applied to various manufacturing devices, terminals, medical ...

Cached

Instant messaging for event notification and exchanging data in an industrial controller ...

DM Callaghan - US Patent 7,539,724, 2009 - freepatentsonline.com

... balancing using distributed forwarding agents with application ... Multi-protocol bus device, April, 2006, ... processing in an industrial controller environment, December ...

Related articles - All 3 versions

Integrated Programmer Reference For Industrial Control Device Data

J BIZILY, S PIERCE, P TELLJOHANN, RD Law, ... - 2007 - freepatentsonline.com

... Attorney, Agent or Firm: Rockwell Automation, Inc /BF ... controller (10), the industrial controller communicating with a ... data sheets describing device data (22 ...

All 3 versions

Agent program environment

RJ Staron, KH Hall, FP Maturana, P Tichy, P ... - US Patent App. 10/808,999, 2004 - Google Patents

... 15, 2004 and entitled "Agent Program Environment", where ... simple and requires programming only a single device. ... a process with an industrial controller is the ...

Related articles - All 5 versions

Intelligent self-determining I/O device

GM Sichner - US Patent 7,412,548, 2008 - Google Patents

... WH Tsai Assistant Examiner—Scott Sun (74) Attorney, Agent, or Firm ... or down- stream (ie, away from the industrial controller 100) to another device D and/or ...

All 5 versions

Method and system for selecting controller output value source

SP Blech, GA Majcher, JP Caspers - US Patent 6,591,311, 2003 - Google Patents

... Examiner—Rehana Perveen (74) Attorney, Agent, or Firm ... Various control modules of the industrial controller may be ... message from a master or peer device over a ...

All 2 versions

... radio frequency identification (RFID) technology with agent-based control systems

P Vrba, F Macurek, V Marik, KH Hall, P Tichy ... - US Patent App. 10/985,173, 2004 - Google Patents
... one or more of the **agents** and/or a dedicated **agent**, for example, within a
microprocessor-based **device** such as a computer, an **industrial controller**, a hardware ...
[Related articles](#) - [All 3 versions](#)

Distributed intelligent diagnostic scheme

FP Maturana, RJ Staron, FM Discenzo, KH Hall ... - US Patent App. 11/012,818, 2004 - Google Patents
... that employs a distributed intelligent **agent** infrastructure to ... with a control program,
the **industrial controller**, having an ... that interface at a **device** level to ...
[All 2 versions](#)

System and methodology that facilitate factory automation services in a distributed ...

DE Thomas, TJ Jasper, CH Bromley, NJ ... - US Patent 7,392,100, 2008 - freepatentsonline.com
... Leo. Assistant Examiner: Kasenge, Charles. Attorney, **Agent** or Firm: ... 4, the **industrial**
controller 204 is called "BaggerSLC" and an HMI **device** 280 is ...

Safety network for industrial controller providing redundant connections on single media

KW Vandesteeg, DA Vasko, JA Lenner, KH ... - US Patent 6,631,476, 2003 - Google Patents
... Examiner—Rita A Ziemer (74) Attorney, **Agent**, or Firm ... among compo- nents of an **industrial**
controller some of ... may be in a single physical **device** having one FIG ...
[Related articles](#) - [All 2 versions](#)

Real-time test bench for traction drives controllers

G Bianchi, FC Dezza, R Manigrasso, F ... - ieeexplore.ieee.org
... State is going to notify the Italian Transport Agency and in this ... and its dynamical
performance as measured coupling the **device** to an **industrial controller**. ...
[Related articles](#) - [BL Direct](#)

Virtual reality and telepresence control of robots used in hazardous environments

LE Bronisz, PC Pittman - 1996 - osti.gov
... likely continue to be an Adept **industrial controller** as used ... the United States
Government or any agency thereof ... of the teleoperation issues for the next **device**. ...
[All 2 versions](#)

Diagnostic tool for retroactive assessment of industrial process performance

DJ Reichard, KS Plache - 2008 - freepatentsonline.com
... Attorney, **Agent** or Firm: Grünecker, Kinkeldey, Stockmair & ... control system 20 having
an **industrial controller** that executes ... 18; a data playback **device** 26 that ...

System and methodology providing multi-tier-security for network data exchange with ...

BA Batke, JJ Baier, RA Morse, DM Callaghan - US Patent 7,536,548, 2009 - freepatentsonline.com
... Primary Examiner: Revak, Christopher A. Attorney, **Agent** or Firm ... a trust relationship
between a remote **device** and the **industrial controller**, an encryption ...

Jog control for industrial control network

TM Keeley - US Patent 6,529,785, 2003 - Google Patents
... (74) Attorney, **Agent**, or Firm ... on the network to the output 40 **device** corresponding
to the ... a control program executed by an **industrial controller** to supervise ...

[Related articles - All 2 versions](#)

Automation device data interface

DM Callaghan - US Patent 7,565,351, 2009 - [freepatentsonline.com](#)
... 6842779, **Agent** accessory tool cooperating with integrated ... object based interface
for **industrial controller**, March, 2003, ... configuring a remote **device**, March, 2003, ...

Agent simulation development environment

FP Maturana, P Vrba, RJ Staron, KH Hall, P ... - US Patent App. 11/044,233, 2005 - Google Patents
... VERSAL RUN-TIME INTERFACE FOR **AGENT**-BASED SIMULATION ... are special purpose processing
devices used for ... facilitated by separating the **industrial controller** into a ...

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Systems and methods that integrate radio frequency identification (RFID) technology with ...

F Macurek, P Vrba, KH Hall - US Patent 7,339,476, 2008 - Google Patents
... PCT/EP2005/007878, 8 pages. (Continued) Primary Examiner—Crystal J. Barnes (74)
Attorney, Agent, or Firm—Amin Turocy & Calvin LLP; William R. Walbrun (57 ...

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System and methodology that facilitates client and server interaction in a distributed ...

DE Thomas, TJ Jasper, CH Bromley, NJ ... - US Patent 7,308,473, 2007 - Google Patents
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controller environment in ... illustrating a network **device** topology relevant ...

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... facilitating remote and automated maintenance procedures in an industrial controller ...

DR Wylie, JJ Baier, DM Callaghan - US Patent 7,203,560, 2007 - Google Patents
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an **industrial controller** receiving an ... I/O table to control a **device** environment ...

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US Patent 3,515,162, 1970 - Google Patents
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operated **industrial controller** from which the **device** of this ...

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KH Hall, K Tambascio, JJ Baier, EG Dorgelo, ... - 2008 - freepatentsonline.com
... Attorney, **Agent** or Firm: Englaender, Klaus (HML Patent and ... related to field devices
of an industrial controller system ... 200 can include a field device 202 having ...

... and method of powering and communicating field ethernet **device** for an instrumentation and ...

S Keyghobad, W Baker, R Thibault - US Patent 6,640,308, 2003 - Google Patents
... Nitin C. Patel (74) Attorney, **Agent**, or Firm—Fish & Richardson PC (57) ABSTRACT
A powered Ethernet connection is provided between two **devices** connected by an ...

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... WAREHOUSING OF CONTROLLER IMAGES IN A DISTRIBUTED **INDUSTRIAL CONTROLLER** ENVIRONMENT
(75 ... Assistant Examiner—Hassan Tony Mahmoudi (74) Attorney, **Agent**, or Firm ...

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JR Carroll, AV Augis, J Erinc, JJ Jacko, LE ... - US Patent 7,373,267, 2008 - Google Patents
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... a special purpose processing device for controlling ... exemplary an exemplary **industrial**
controller in accordance ... component, "adapter, ""agent,""module,""system ...

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and compatibility of those **industrial controller** examines a ...
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Industrial controller

Y Samed, H Nakatani, A Sawada, J Takehara, ... - 2008 - freepatentsonline.com
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controller is allowed to ... Previous Patent: Method and Device for Calculating a ...
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... link or the Internet to the **industrial controller/control system** or ... can be associated
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